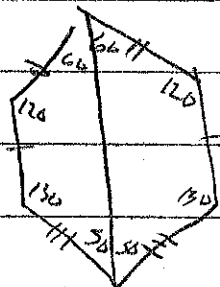


202
4.2

p 293 11-15, 17-20, 34-38 (not 37)

11.



all $\angle s \cong ?$

all ^{corr} sides $\cong 1/1$ ratio

yes similar

12. $\angle s \cong ?$ ✓

sides $\hat{p} \hat{p} ?$ ✓

1-1

yes

13. $\angle s$ not \cong

not ~

14. $\angle s \cong ?$ ✓

$$\frac{2}{5\frac{1}{2}} = \frac{3}{8} = \frac{4}{10\frac{2}{3}}$$

$$.375 \quad .375 \quad .375$$

yes

15.

$$\frac{350\frac{2}{3}}{1052}$$

$$\frac{1}{3}$$

17. $ABCD \sim EFGH$

$$\frac{x+1}{8} = \frac{x-1}{5}$$

$$8x-8=5x+5$$

$$3x=13$$

$$x=\frac{13}{3}$$

$$AB = 5\frac{1}{3}$$

$$CD = 3\frac{1}{3}$$

S.F.

$$\frac{5\frac{1}{3}}{8} = \frac{2}{3}$$

18. $\triangle ABC \sim \triangle EDC$

$$\frac{x+7}{12-x} = \frac{4}{6}$$

$$6x + 42 = 48 - 4x$$

$$10x = 6$$

$$x = \frac{6}{10} = \frac{3}{5}$$

$$AC = 7.6$$

$$CE = 11.4$$

$$S.F. = \frac{2}{3}$$

19. Challenging

$$\triangle ABE \sim \triangle ACD$$

$$\frac{10}{x+12} = \frac{6.25}{x+5.25}$$

$$\nearrow$$

$$x+12+10$$

$$\nearrow$$

$$6.25+x-1$$

$$10x + 52.5 = 6.25x + 75$$

$$3.75x = 22.5$$

$$x = 6$$

$$BC = 8$$

$$ED = 5$$

S.F.

$$\frac{10}{18} = \frac{5}{9}$$

20. $\triangle RST \sim \triangle EGF$

$$\frac{10}{x} = \frac{15}{11.25}$$

$$15x = 112.5$$

$$x = 7.5$$

$$GF = 7.5$$

EG

$$\frac{20.7}{EG} = \frac{10}{7.5}$$

$$EG = 15.525$$

$$S.F. = \frac{15}{11.25} = \frac{4}{3}$$

$$34 - 38$$

$$34. \quad y + 30 = 60$$

$$y = 30$$

$$x - 4 = 87$$

$$x = 91$$

35.

$$x = 30$$

$$y = 70$$

$$80 + 30 = \overset{180}{110}$$

$$70$$

36.

$$\frac{x+2}{15} = \frac{84}{105}$$

$$(x+2) = 8$$

$$x = 6$$

$$\frac{y-3}{8} = \frac{84}{105}$$

$$y - 3 = 4$$

$$y = 7$$

37.

Marked incorrectly
Do Not Do.

38.

$$\frac{12}{y+4} = \frac{20}{15}$$

$$y+4 = 9$$

$$y = 5$$

$$\frac{20}{x-4} = \frac{20}{12}$$

$$x-4 = 12$$

$$x = 8$$

